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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,342	12/16/2003	Milton B. Yatvin	99,296-D	6153
75	90 06/02/2005		EXAM	INER
McDonnell Boehnen Hulbert & Berghoff			WEDDINGTON, KEVIN E	
32nd Floor 300 S. Wacker Drive			ART UNIT	PAPER NUMBER
Chicago, IL 60606			1614	
			DATE MAILED: 06/02/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/737,342	YATVIN ET AL.				
		Examiner	Art Unit				
	· · · · · · · · · · · · · · · · · · ·	Kevin E. Weddington	1614				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		,					
1)⊠	Responsive to communication(s) filed on <u>01 October 2004</u> .						
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· · · · · · · · · · · · · · · · · · ·	5)☐ Claim(s) is/are allowed. 6)☒ Claim(s) 1-10 is/are rejected. 7)☐ Claim(s) is/are objected to.						
·							
8) <u>□</u>	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers		•				
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) . Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8-12-04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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Claims 1-10 are presented for examination.

Applicants' information disclosure statement filed August 12, 2004 and the amendment filed October 1, 2004 have been received and entered.

Accordingly, the rejection made under 35 USC 101 double patenting as set forth in the previous Office action dated July 28, 2004 at pages 2 and 3 is hereby withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 8 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for treating an animal infected with a *Mycobacterium* species such as *M. fortuitum* and *M. chelonei*, does not reasonably provide enablement for all *Mycobacterium* species. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

In this regard, the application disclosure and claims have been compared per factors indicated in the decision <u>In re Wands</u>, 8 USPQ2d 1400 (Fed. Cir., 1988) as to undue experimentation.

The factors include:

1) the quantity of experimentation necessary

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2) the amount of direction or guidance provided

3) the presence or absence of working examples

4) the nature of the invention

5) the state of the art

6) the relative skill of those in the art

7) the predictability of the art and

8) the breadth of the claims

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice that instant invention without resorting to undue experimentation in view of further discussion below.

The nature of the invention, state of the prior art, relative skill of those in the art and the predictability of the art

The claimed invention relates to a method of treating an animal infected with a disease-causing microorganism of a Mycobacterium species with administering of a composition comprising an antimycobacterial compound derived from claims 1 and 7.

The relative skill of those in the art is generally that of a Ph.D. or M.D.

The present invention is unpredictable unless experimentation is shown for the pyrazimamide compounds of formula I disclosed in claim 1 to treat other Mycobacterium species..

The breadth of the claims

The claim is very broad and inclusive to all Mycobacterium species.

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The amount of direction or guidance provided and the presence or absence of working examples

The working examples are limited to the administration of pyrazinamide compounds effective against Mycobacterium species, M. fortuitum and M. chelonei.

The quantity of experimentation necessary

Applicants have failed to provide guidance as to how the pyrazinamde compounds derived from claims 1 and 7 are effective in treating bacterial infections caused by all Mycobacterium species. The level of experimentation needed to determine what other Mycobacterium species were eradicated by the pyrazimamide compounds is undue. Therefore, undue experimentation would be required to practice the invention as it is claimed in its current scope.

Claim 8 is not allowed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 7, 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoshida et al., "New analogs to nicotinamide and their anticancer effects", Mie Medical Journal (1967), Vol. 16, No. 3, pp. 207-211.

Yoshida et al. teach the amide form of pyrazinamide compounds is well-known anti-tuberculosis agents (see the N,N-diethyl-pyrazinecarboxamide structure). Note

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the compound is derived from the same pyrazinamide core disclosed in claim 1. Clearly, the cited reference anticipates the instant pyrazinamide derivatives are effective against and killing microorganisms that cause tuberculosis, therefore, the instant is unpatentable.

Claims 1, 2, 7, 9 and 10 are not allowed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al., New analogs to nicotinamide and their anticancer effects", Mie Medical Journal (1967), Vol. 16, No. 3, pp. 207-211.

Yoshida et al. were discussed above <u>supra</u> for the use of pyrazinamide compounds as anti-tuberculosis agents.

The instant invention differs from the cited reference in that the cited reference does not teach the other substituients disclosed in applicants' claims 3-6. However, one skilled in the art would have expected that the applicants' instant or preferred substituients would possess the same activity as the core pyrazinamide compound of the cited reference since both the cited reference and the instant invention have the same pyrazinamide ring system. Therefore, it would have been obvious for the skilled artisan to administer the instant pyrazinamide compounds with the preferred substituients of claims 3-6 to mammal to treat microorganisms in the absence of evidence to the contrary.

Claims 3-6 are not allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin E. Weddington whose telephone number is (571)272-0587. The examiner can normally be reached on 11:00 am-7:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571)272-0951. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin E. Weddington Primary Examiner Art Unit 1614 Application/Control Number: 10/737,342 Page 8

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K. Weddington May 30, 2005